

FIG.1

STEP 1

MAKE VARIABLE NAMES  
COMPLIANT IN THE EXPRESSION

STEP 2

MAKE THE EXPRESSION  
FREE OF BRACKETS

STEP 3

INSERT LEADING '+'  
OPERATOR IF NO LEADING  
OPERATOR PRESENT

STEP 4

MAP DIVISION BY VARIABLE  
TO MULTIPLICATION BY THE  
RECIPROCAL OF THE VARIABLE

STEP 5

MAP DIVISION BY CONSTANT  
TO MULTIPLICATION BY THE  
RECIPROCAL OF THE CONSTANT

STEP 6

REPLACE '+' AND '-'  
OPERATORS BY STRINGS  
"+1\*" AND "-1\*" RESPECTIVELY

STEP 7

CONVERT ALL CONSTANTS IN  
THE EXPRESSION TO E-FORMAT

STEP 8

SORT OPERANDS IN EACH  
TERM IN THE EXPRESSION

STEP 9

IN EACH TERM, ELIMINATE ANY  
VARIABLE AND CORRESPONDING  
RECIPROCAL VARIABLE PAIRS

STEP 10

CONSOLIDATE CONSTANTS IN  
EACH TERM IN THE EXPRESSION

STEP 11

CONSOLIDATE LIKE TERMS  
IN THE EXPRESSION

STEP 12

SORT THE TERMS  
IN THE EXPRESSION

FIG.2

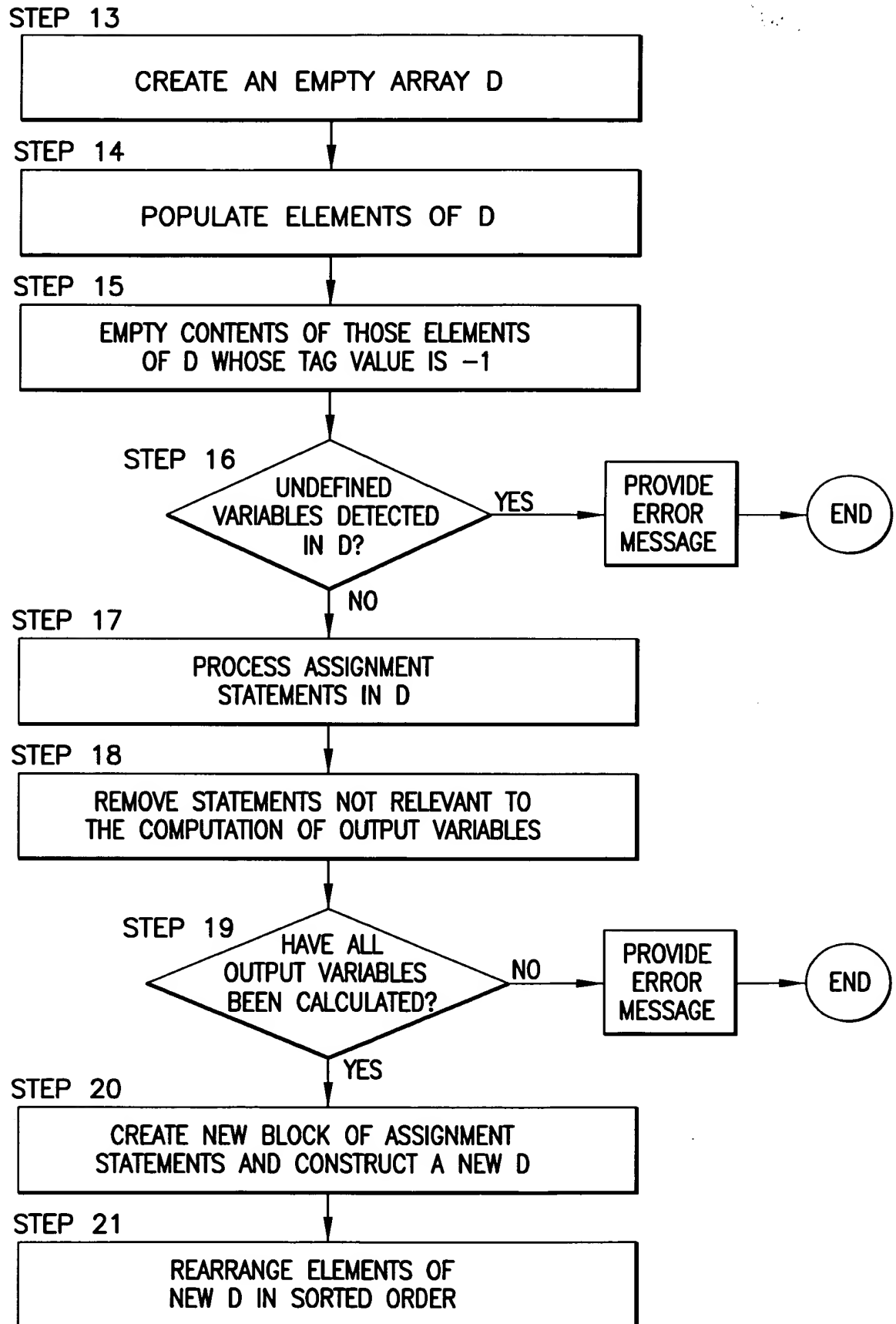


FIG.3